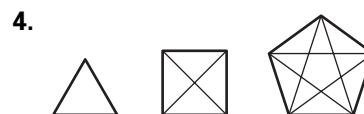
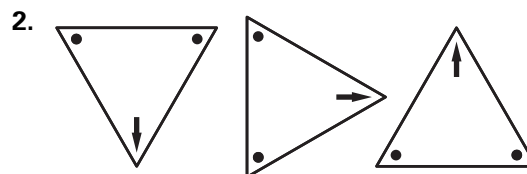


# Practice A

For use with pages 3–9

Sketch the next figure in the pattern.



Describe a pattern in the sequence of numbers. Predict the next number.

5. 2, 5, 8, 11, ...

6. 27, 9, 3, 1, ...

7. 123, 234, 345, 456, ...

8. 5, 7, 11, 17, 25, ...

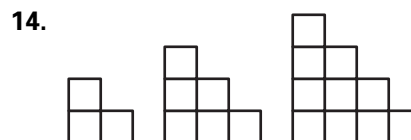
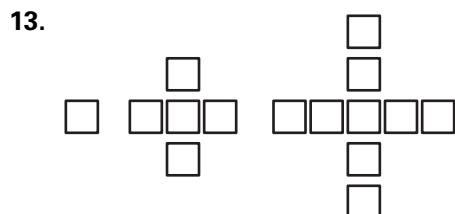
9.  $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \dots$

10.  $\frac{5}{4}, \frac{4}{6}, \frac{3}{8}, \frac{2}{10}, \dots$

11. 4, 1, -2, -5, ...

12. 1, 4, 9, 16, ...

The first three objects in a pattern are shown. How many squares are in the next object?



Complete the conjecture based on the pattern you observe in the specific cases.

15. The product of an odd number and an even number is \_\_\_\_? \_\_\_\_.

16. The sum of an odd number and an even number is \_\_\_\_? \_\_\_\_.

$3 \cdot 8 = 24$

$6 \cdot 5 = 30$

$17 + 22 = 39$

$8 + 37 = 45$

$11 \cdot 24 = 264$

$102 \cdot 31 = 3162$

$135 + 48 = 183$

$94 + 85 = 179$